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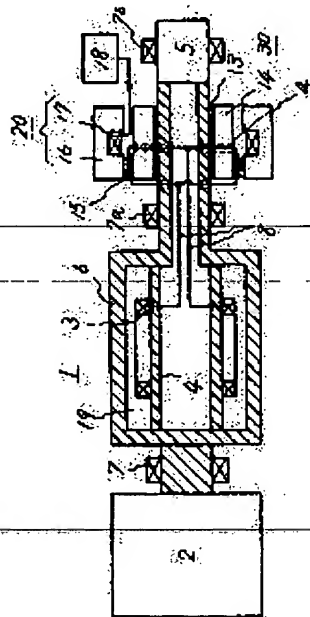
(54) EXCITER FOR SUPERCONDUCTIVE ROTARY MACHINE

(57)Abstract:

PURPOSE: To smoothly excite a superconductive field coil of a superconductive rotary machine and to smoothly remove energy at its quenching time by providing a single-pole rotor on a shaft and a stationary exciter at the periphery thereof and providing switching means for exciting direction in positive or negative direction.

CONSTITUTION: A single-pole rotor 14 is mounted via an insulator 13 on the same shaft as the rotational shaft of a superconductive rotor 1, and a conductor 15 is mounted. The terminals of power leads 8 are connected to both axial ends of the conductor 15, and are led through holes (a) to the rotor 1. A stationary exciter 20 is provided at the periphery of the rotor 14, and is excited by a DC power source 18. When a superconductive field coil 3 is quenched, the exciting direction of the single-pole machine 30 is switched in its

exciting direction to positive or negative direction to convert the generating action to motor action. In this manner, the magnetic energy of the coil 3 can be converted to rotary energy, thereby smoothly removing the excitation and energy.



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